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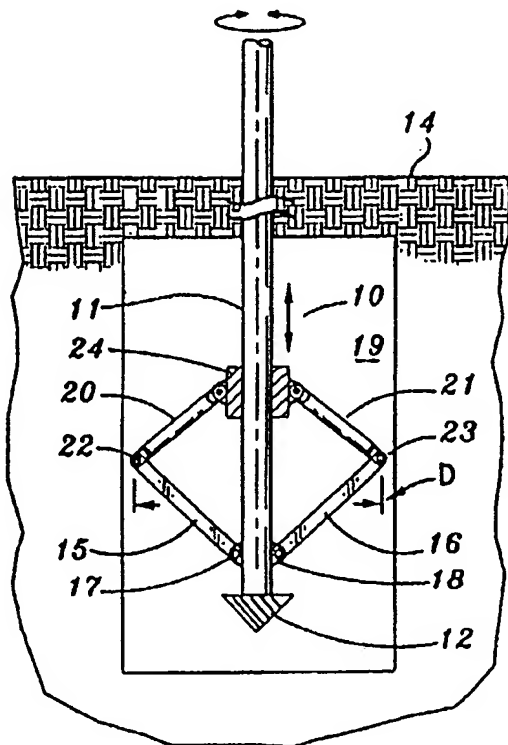
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(54) Title: FORMING IN-SITU PILINGS



(57) Abstract: A process to make in-situ pilings (19) comprised of soil, cement, lime and water, the pilings being bodies of revolution formed by rotating mixer-cutter blade (15,16) whose cutting diameter is selectably adjustable, preferably on a running basis so as to have the capability of producing piling with diameter that differs from station to station.

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INTERNATIONAL SEARCH REPORT

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PCT/US03/33115

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : E02D 5/44; E02D 3/12
US CL : 405/237, 233, 263, 269

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 405/231, 232, 233, 237, 238, 233, 263, 269, 267; 175/57, 65, 71, 263, 265, 267, 284, 285, 288, 292

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X — Y	US 4,606,675 A (GUNTHER) 3 February 2004 (03.02.2004), see col.4, lines 14-45; col. 10, lines 41-66.	1, 7 and 12 ----- 2-6 and 9-11
A	US 4,181,184 A (GREEN) 19 February 1980 (19.02.80), entire document.	1-12
A	US 6,591,922 A (RIAL et al) 15 July 2003 (15.07.2003), abstract.	1-12
A	US 5,967,700 A (GUNTHER) 19 October 1999 (19.10.99), abstract.	1-12
A	US 4,688,648 A (IKEDA et al) 25 August 1987 (25.08.87), abstract.	1-12
A	US 1,970,063 A (STEINMAN) 14 August 1934 (14.08.34), entire document.	1-12

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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